



Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower,
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 Information

Name of MS4: City of Morristown		MS4 Permit Number: TNS076031	
Contact Person: Jim Whitbeck, P.E.		Email Address: jwhitbeck@mymorristown.com	
Telephone: (423) 353-1055		MS4 Program Web Address: www.mymorristown.com/departments/public_works/stormwater/index.php	
Mailing Address: PO Box 1499			
City: Morristown	State: TN	ZIP code: 37816-1499	

What is the current population of your MS4? 30,777

What is the reporting period for this annual report? July 1 2021 to June 30 2022

2. Discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters (Section 3.1)

- A. Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool (tdeconline.tn.gov/dwr/)? If yes, attach a list. ☒ Yes ☐ No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wr-ws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list. ☒ Yes ☐ No
- C. Does your MS4 discharge to any Exceptional Tennessee Waters (ETWs - http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142)? If yes, attach a list. ☐ Yes ☒ No
- D. Are you implementing specific Best Management Practices (BMPs) to control pollutant discharges to waterbodies with unavailable parameters or ETWs? If yes, describe the specific practices: Confirm appropriate measures are provided for construction sites which discharge to waterbodies with unavailable parameters as part of site plan review ☒ Yes ☐ No

3. Public Education/Outreach and Involvement/Participation (Sections 4.2.1 and 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? ☒ Yes ☐ No
- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: See Attached ☒ Yes ☐ No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: http://www.mymorristown.com/departments/public_works/stormwater/index.php ☒ Yes ☐ No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: See Attached

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- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: See Attached
- F. Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction, water quality improvement, etc.) fully or partially attributable to your public education and participation program during this reporting period: See Attached

4. Illicit Discharge Detection and Elimination (Section 4.2.3)

- A. Have you developed and do you continue to update a storm sewer system map that shows the location of system outfalls where the municipal storm sewer system discharges into waters of the state or conveyances owned or operated by another MS4? ☒ Yes ☐ No
- B. If yes, does the map include inputs into the storm sewer collection system, such as the inlets, catch basins, drop structures or other defined contributing points to the sewershed of that outfall, and general direction of stormwater flow? ☒ Yes ☐ No
- C. How many outfalls have you identified in your storm sewer system? 504
- D. Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system? ☒ Yes ☐ No
- E. Have you implemented a plan to detect, identify and eliminate non-stormwater discharges, including illegal disposal, throughout the storm sewer system? If yes, provide a summary: Dry weather screening is performed on all outfalls once during the permit cycle. Any observed flows are investigated to determine if the flow is an illicit discharge. Results are tracked in GIS. Hot spots are checked on average twice each permit cycle. Codes Enforcement investigated 149 cases involving junked cars, 34 cases involving illegal dumping, and 36 homeless camps with littering. ☒ Yes ☐ No
- F. How many illicit discharge related complaints were received this reporting period? 10
- G. How many illicit discharge investigations were performed this reporting period? 10
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 7

5. Construction Site Stormwater Runoff Pollutant Control (Section 4.2.4)

- A. Do you have an ordinance or other regulatory mechanism requiring:
- Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook? ☒ Yes ☐ No
- Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste? ☒ Yes ☐ No
- Design storm and special conditions for unavailable parameters waters or Exceptional Tennessee Waters consistent with those of the current Tennessee Construction General Permit (TNR100000)? ☒ Yes ☐ No
- B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval? ☒ Yes ☐ No
- C. Do you have sanctions to enforce compliance? ☒ Yes ☐ No

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- D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly? ☒ Yes ☐ No
- E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 24
- F. How many active priority and non-priority construction sites were inspected this reporting period? 24
- G. How many construction related complaints were received this reporting period? 12

6. Permanent Stormwater Management at New Development and Redevelopment Projects (Section 4.2.5)

- A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division? ☒ Yes ☐ No
☐ Yes ☐ No
- B. Do you have an ordinance or other regulatory mechanism requiring:
- Site plan review and approval of new and re-development projects? ☒ Yes ☐ No
- A process to ensure stormwater control measures (SCMs) are properly installed and maintained? ☒ Yes ☐ No
- Permanent water quality riparian buffers? If yes, specify requirements: See Attached ☒ Yes ☐ No
- C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? Disturbed area greater than or equal to 1 acre, net increased impervious area greater than or equal to 0.5 acre, permanent stormwater pollutant removal required, located within 100' of a water of the state, or as designated by the City Administrator
- D. How many development and redevelopment project plans were reviewed for this reporting period? 20
- E. How many development and redevelopment project plans were approved? 17
- F. How many permanent stormwater related complaints were received this reporting period? 0
- G. How many enforcement actions were taken to address improper installation or maintenance? 0
- H. Do you have a system to inventory and track the status of all public and private SCMs installed on development and redevelopment projects? ☒ Yes ☐ No
- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. N/A ☐ Yes ☒ No

7. Stormwater Management for Municipal Operations (Section 4.2.6)

- A. As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations:
- Streets, roads, highways? ☒ Yes ☐ No
- Municipal parking lots? ☒ Yes ☐ No
- Maintenance and storage yards? ☒ Yes ☐ No
- Fleet or maintenance shops with outdoor storage areas? ☒ Yes ☐ No
- Salt and storage locations? ☒ Yes ☐ No
- Snow disposal areas? ☐ Yes ☒ No

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Waste disposal, storage, and transfer stations? ☐ Yes ☒ No

B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s? ☒ Yes ☐ No

If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term? ☒ Yes ☐ No

8. Reviewing and Updating Stormwater Management Programs (Section 4.4)

A. Describe any revisions to your program implemented during this reporting period including but not limited to:

Modifications or replacement of an ineffective activity/control measure. N/A

Changes to the program as required by the division to satisfy permit requirements. N/A

Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. 0.068 square miles annexed; no updates required

B. In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period. See Attached ☒ Yes ☐ No

9. Enforcement Response Plan (Section 4.5)

A. Have you implemented an enforcement response plan that includes progressive enforcement actions to address non-compliance, and allows the maximum penalties specified in TCA 68-221-1106? If no, explain. ☒ Yes ☐ No

B. As applicable, identify which of the following types of enforcement actions (or their equivalent) were used during this reporting period; indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater management), and note those for which you do not have authority:

<u>Action</u>	<u>Construction</u>	<u>Permanent Stormwater</u>	<u>Illicit Discharge</u>	<u>In Your ERP?</u>	
Verbal warnings	<u>#7</u>	<u>#0</u>	<u>#6</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	<u>#0</u>	<u>#0</u>	<u>#0</u>	Describe: <u>N/A</u>	

C. Do you track instances of non-compliance and related enforcement documentation? ☒ Yes ☐ No

D. What were the most common types of non-compliance instances documented during this reporting period?
mud in the road

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10. Monitoring, Recordkeeping and reporting (Section 5)

- A. Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. See Attached
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. See Attached
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. ☒ Yes ☐ No

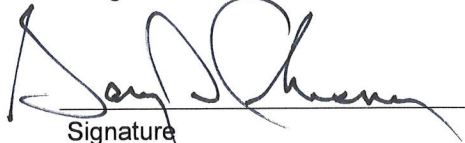
11. Certification

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Gary D. Chesney, Mayor

Printed Name and Title


Signature

9/27/2022

Date

Annual reports must be submitted by September 30 of each calendar year (Section 5.4) to the appropriate Environmental Field Office (EFO), identified in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Pkwy, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 520-6688
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

City of Morristown

Attachment to Small Municipal Separate Storm Sewer System (MS4) Annual Report 2021-2022 (Year 6) Reporting Period

- 2.A *Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool (tdeconline.tn.gov/dwr/)? If yes, attach a list.*

River Basin	Waterbody ID#	Cause	TMDL Approved?	TMDL Pollutant
Holston	TN06010104004T-1900 Fall Creek	Alteration in stream-side or littoral vegetative covers; Sedimentation / Siltation; Nitrate / Nitrite (Nitrite + Nitrate as N); Phosphorus (Total); Escherichia coli	Yes	E. Coli
Holston	TN06010104004T-2220 Stubblefield Creek	Other anthropogenic substrate alterations	No	N/A
Holston	TN06010104004T-2300 Turkey Creek	Nitrate / Nitrite (Nitrite + Nitrate as N); Alteration in stream-side or littoral vegetative covers; Sedimentation / Siltation; Escherichia coli	Yes	E. Coli
Nolichucky	TN06010108001-0100 Flat Creek	Escherichia coli	Yes	E. Coli
Nolichucky	TN06010108043-0400 Cedar Creek	Alteration in stream-side or littoral vegetative covers; Sedimentation / Siltation	Yes	E. Coli; Siltation and Habitat Alteration

- 2.B *Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wrws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list.*

See table in 2.A.

3.B Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program:

Specific pollutant sources which are targeted include: litter, household hazardous waste, BOPAE (Batteries, Oil, Paint, Antifreeze, and Electronics) waste, general water pollution, construction sites, and hot spots.

New developments classified as hot spots require a Special Pollution Abatement Plan, which requires the owner to conduct employee training on pollution prevention at the site. More details on how the other pollutants and sources are targeted are contained in Sections 3.D and 3.E.

3.D Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities:

The City maintains a website which includes:

- a link to the Keep Morristown-Hamblen Beautiful (KMHB) website for education and involvement opportunities
- a summary of each minimum control measure required by the Tennessee Department of Environment and Conservation (TDEC) permit
- requirements for plan submittal and review
- a copy of the City's stormwater ordinance
- targeted education on stormwater pollution prevention
- rates and other information for the stormwater utility

Keep Morristown Hamblen Beautiful (KMHB) coordinates and participates in events and education efforts in line with the mission and focus of Keep America Beautiful to encourage everyone to take action every day to improve and beautify the community. Targeted litter reduction and stormwater education efforts are provided to the public through local partnerships with the City of Morristown.

The KMHB website and social media are utilized to disseminate information based on the guidance of their Executive Director and Board of Directors. They utilize Facebook, Instagram, Twitter, and local media (newspaper, radio stations, and the local TV cable channel) to notify the public about upcoming events, how-to's, recycling and litter prevention tips, and other ways for the public to participate.

The draft Report was posted on the City's website. Public notice of the Annual Report with links to the draft was posted on the City's website, Facebook and Twitter accounts. Comments were accepted via e-mail and telephone.

3.E Summarize the public education, outreach, involvement and participation activities you completed during this reporting period:

Several annual events were canceled this year due to the COVID-19 pandemic. These included several of the largest events: Soil Conservation Field Days, where all fourth-grade students

participate in the “Freddie the Fish” presentation (a hands-on demonstration on common water pollutants) and Project Graduation, an all-night gathering for new high school graduates. However, some events such as the Household Hazardous Waste event returned.

Completed by KMHB

- Two combined BOPAE (batteries, oil, paint, antifreeze, and electronics) and Household Hazardous Waste (HHW) collection events were held, one in October and March. Approximately 73,500 pounds of BOPAE and 9,600 pounds of HHW were collected from around 765 households. 56 volunteers provided 230 hours to assist with the event. Each household received a tote bag with general educational information including flyers, litter bag, and brochures. Newspaper articles ran 6 times with information on what could be collected, and an article ran after the event with collection statistics. In addition, the KMHB director gave an interview to the local cable access channel.
- A Tire Collection was held in conjunction with the BOPAE/HHW event in March. 60.7 tons were collected.
- KMHB volunteers staffed a booth at three Live on the Lawn concerts downtown with educational materials including brochures, pencils, and pocket ashtrays. The booth focused on cigarette litter at one event. Three volunteers gave 6 hours; approximately 850 people attended the events.
- KMHB focuses many of their efforts on litter cleanup and prevention. They held four cleanup events, including in a neighborhood, along the shore of Cherokee Lake, in a state park, and along a major highway. 21 volunteers gave 109 hours in these efforts. A volunteer KMHB board member gave a radio interview which included litter education. The neighborhood cleanup included a litter bag and brochure hung on each door.
- KMHB provided general stormwater information at booths at several events, including the Hola Festival, Craft Beer Festival, and the Home Show at College Square Mall. A wide variety of educational materials was available: brochures, pencils, tote bags, ashtrays, car litter bags, kids activity sheets. The EnviroScape watershed model was on display at the Home Show. An estimated 14,000 participants attended these events. 13 volunteers contributed 37 hours.
- Children were the focus of several KMHB events. KMHB provided materials to teachers at Mountain View Head Start and to participating classes of Kindergarten Farm Day, including brochures, pencils, and activity sheets. The materials included Tensi Turtle Activity books, which were commissioned by the Tennessee Stormwater Association. KMHB also manned a booth at the MATS Family Fun Day, with the EnviroScape model, educational materials, and reusable water bottles as prizes. Eight volunteers contributed 11 hours, and approximately 1,100 people participated.
- The KMHB executive director gave a presentation to a Rotary Club and distributed flyers, litter bags, tote bags, and brochures.
- KMHB maintained recycling bins at several events, including the Rat Rod Roundup, Christmas parade, New Year's Downtown, Skymart Festival, Strawberry Festival, and

Burgers and Bluegrass Downtown. This helps reduce litter and encourage recycling. Approximately 4,000 people attended these events. Five volunteers contributed 12 hours to this effort.

- KMHB uses social media extensively to promote education and involvement opportunities. 142 Facebook posts reached 66,000 users and had 2,600 engagements. 137 Twitter posts generated 7,100 impressions and 400 engagements. Instagram yielded 143 posts and 4,000 impressions. Topics included information about the BOPAE, HHW, and Tire Collections, other participation opportunities, litter, and general stormwater education.

Completed by the City

- The City Parks & Recreation Department hosted a Touch-a-Truck event in September. The City's stormwater vac truck was on display, and attendees received a Tensi Turtle activity book (while supplies lasted). Around 800 people attended the event.
- Stormwater staff made a presentation to City Council in a workshop following the first January Council meeting. A general overview of the program was presented along with the results of the TDEC compliance audit. Around 15 people attended the public meeting.

Completed by the Morristown-Hamblen Library

- As part of its Summer Reading Program, the Library hosted TDEC's Larry Everett for a presentation on Aquatic Bugs. 74 children and 45 adults learned about aquatic life, streambank stabilization, and watersheds. The City contributes to the Library's budget annually.

3.F *Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction, water quality improvement, etc.) fully or partially attributable to your public education and participation program during this reporting period:*

- The education efforts summarized in Sections 3.D and 3.E resulted in the following volunteer participation by members of the public. Note that the "volunteers" and "hours" columns in the table reflect active participation in organizing and conducting the activities. The "attendees" column is an estimate of attendees who were exposed to the education message or who participated in the event.

Summary of Public Participation

Category	Volunteers	Hours	Attendees
BOPAE Collection	28	115.0	382
Cigarette Litter	1	2.0	300
HHW Collection	28	115.0	383
Litter Cleanup	21	109.0	99
Litter Education	1	1.0	0
Misc Education	23	53.0	16,922
Recycling	5	11.8	4,150
Tire Collection	6	25.0	150
Total	113	431.8	22,386

- BOPAE (batteries, oil, paint, antifreeze, electronics) waste collection attendees delivered approximately 73,500 pounds of those items to the two collections.
- Two household hazardous waste (HHW) collections held in conjunction with the BOPAE collections collected about 9,600 pounds of HHW.
- About 60.7 tons of tires were collected at the Spring BOPAE/HHW event.

6.B *Do you have an ordinance or other regulatory mechanism requiring: Permanent water quality riparian buffers?*

A water quality buffer zone (WQBZ), measured from the top of bank, is required as follows:

- stream with drainage area less than 1 square mile: 30' wide
- stream with drainage area greater than or equal to 1 square mile, and/or water with unavailable parameters: 60' wide
- wetland: 30' wide around perimeter

Variances are permitted with approval from the Stormwater Violations Appeals Board.

7.A *As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations: (Items Marked "No")*

The City does not operate snow disposal areas or waste disposal, storage, and transfer stations.

- 8.B *In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period.*

Public participation increased by about 6 times this year, likely as a result of the easing of the COVID-19 pandemic. Even subtracting the large crowd from one event (Craft Beer Festival), the participation was still triple that of last year.

The number of volunteers dropped slightly, from 121 to 113 (7%), but the number of volunteer hours more than doubled from 187 to 432.

BOPAE collections were up again this year. Total quantity increased 26% from last year (58,400 lbs) to 73,500 lbs this year, while the number of households increased slightly (3%, from 743 to 765, based on combined BOPAE/HHW attendance). Again this year, the total collected at the second event in the spring was considerably lower than the fall event, probably reflecting that many people took most or all of their waste to the first event.

The City's Litter Crew was able to return to part-time status after not operating last year due to COVID-19 restrictions and staffing issues. The crew spent 326 hours and collected around 37,000 pounds of trash, 19 needles, and 100 tires.

Overall, progress was made on meeting the Program Best Management Practices (BMP's), with 94% fully met, compared to 87% last year. The following two BMPs which were partially met last year are now fully met. Education was provided to HOAs, and all municipal operations procedures have been implemented.

- 10.A *Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period.*

Results from analytical monitoring are summarized below. Lab results are attached.

Bacteriological Monitoring (E. coli)

Stream	Geometric Mean
Fall Creek	905
Flat Creek	121
Turkey Creek	762

- 10.B *Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period.*

Results from non-analytical monitoring are attached.

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Morristown Laboratory Bacteriological Analysis

Date: 08-02-2021		PWSID: City of Morristown		FOR LABORATORY USE ONLY										
Water System Name		Mailing Address: m.potect@mymorristown.com		Laboratory ID# 03038		Date Received: 8-2-2021								
Phone:		Fax No:		Time Received: 1344		By Whom: US								
Sample Collector: Dana Thompson				Date Setup: 8-2-2021		Analyst: US								
				Time Setup: 1353		Date Read:								
						Time Read:								
				<table border="1"> <tr> <td>Sample (s) over 30 hours old</td> <td>1</td> <td rowspan="3">CODE</td> </tr> <tr> <td>Leaked in Transit</td> <td>2</td> </tr> <tr> <td>Insufficient quantity</td> <td>3</td> </tr> </table>				Sample (s) over 30 hours old	1	CODE	Leaked in Transit	2	Insufficient quantity	3
Sample (s) over 30 hours old	1	CODE												
Leaked in Transit	2													
Insufficient quantity	3													
				Method Code - 9223										
Sample Location / Address		Time Collected	Cl2 Residual	Sample Type	Contaminant Code 3100 (Total Coliform)	Contaminant Code 3014 (E.Coli.)	If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number							
1	Turkey Crk @ Fairview - Shields Ferry	1015 AM		Creek	Neg > 2419.6	Pos > 2419.6								
2														
3														
4														
5														
6														
7														
8														
9														
10														

Sample Type: F = Repair Line S= Special D=Distribution N=New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below



Morristown Laboratory Bacteriological Analysis

Date: 08-02-2021		PWSID: City of Morristown		FOR LABORATORY USE ONLY										
Water System Name Mailing Address: mpotect@my.morristown.com Phone: Fax No: Sample Collector: Dana Thompson		Laboratory ID# 03038												
		Date Received: 8-2-2021		By Whom: UB										
		Time Received: 1344												
		Date Setup: 8-2-2021		Analyst: UB										
		Time Setup: 1353		Date Read		Analyst								
				Time Read										
				<table border="1"><tr><td>Sample (s) over 30 hours old</td><td>1</td><td rowspan="3">CODE</td></tr><tr><td>Leaked in Transit</td><td>2</td></tr><tr><td>Insufficient quantity</td><td>3</td></tr></table>				Sample (s) over 30 hours old	1	CODE	Leaked in Transit	2	Insufficient quantity	3
Sample (s) over 30 hours old	1	CODE												
Leaked in Transit	2													
Insufficient quantity	3													
		Method Code - 9223				If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number								
		Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E.Coli.)										
	Sample Location / Address	Time Collected	Cl2 Residual	Sample Type	Neg	Pos	Neg	Pos						
1	Fall Crk @	1145 AM		Creek	> 2419.6			1203.3						
2	House # 5778													
3														
4														
5														
6														
7														
8														
9														
10														

Sample Type: F = Repair Line S= Special D=Distribution N=New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below

FT

Morristown Laboratory Bacteriological Analysis

Date: 08-02-2021		PWSID: City of Morristown		FOR LABORATORY USE ONLY															
Water System Name		Mailing Address: mpoteet@my.morristown.com		Laboratory ID# 03038		Date Received: 8-2-2021		By Whom: UB											
Phone:		Fax No:		Date Setup: 8-2-2021		Analyst: UB		Date Read: 8-3-2021											
Sample Collector: Dana Thompson				Time Setup: 1353				Time Read: 1410											
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Leaked in Transit	2																		
Insufficient quantity	3																		
				Method Code - 9223				If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number											
				<table border="1"> <tr> <th colspan="2">Contaminant Code 3100 (Total Coliform)</th> <th colspan="2">Contaminant Code 3014 (E.Coli.)</th> </tr> <tr> <td>Neg</td> <td>Pos</td> <td>Neg</td> <td>Pos</td> </tr> <tr> <td></td> <td>24196</td> <td></td> <td>68.9</td> </tr> </table>						Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E.Coli.)		Neg	Pos	Neg	Pos		24196
Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E.Coli.)																	
Neg	Pos	Neg	Pos																
	24196		68.9																
	Sample Location / Address	Time Collected	Cl2 Residual	Sample Type															
1	Flat Crk @ Hwy	11:00 AM		Creek															
2	160 North of																		
3	Caspers Entrance																		
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sample Type: F = Repair Line S= Special D=Distribution N=New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below

Morristown Laboratory Bacteriological Analysis

Date 8-9-2021		PWSID City of Morristown		FOR LABORATORY USE ONLY												
Water System Name Mailing Address mpotect@my.morristown.com Phone: _____ Fax No: _____ Sample Collector Dana Thompson				Laboratory ID# 03038												
				Date Received: 8-9-21			By Whom AM									
				Time Received: 1323												
				Date Setup: 8-9-21			Analyst AM									
				Time Setup: 1323			Date Read: 8-10-21									
							Time Read: 1428									
							Analyst UB									
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Sample (s) over 30 hours old</td> <td style="width: 5%;">1</td> <td rowspan="3" style="width: 15%; text-align: center; vertical-align: middle;">CODE</td> </tr> <tr> <td>Leaked in Transit</td> <td>2</td> </tr> <tr> <td>Insufficient quantity</td> <td>3</td> </tr> </table>						Sample (s) over 30 hours old	1	CODE	Leaked in Transit	2	Insufficient quantity	3
Sample (s) over 30 hours old	1	CODE														
Leaked in Transit	2															
Insufficient quantity	3															
				Method Code - 9223				If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number								
Sample Location / Address		Time Collected	Cl2 Residual	Sample Type	Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E. Coli.)									
					Neg	Pos	Neg			Pos						
1	Flat Crk		10:10 am		Creek	>2419.6		35.5								
2	Turkey Crk		11:30 am		Creek	>2419.6		1553.1								
3	Fall Crk		12:00 pm		Creek	>2419.6		2419.6								
4																
5																
6																
7																
8																
9																
10																

(FE)
 (FI)

Sample Type: F = Repair Line S = Special D=Distribution N=New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below

Morristown Laboratory Bacteriological Analysis

Date: <u>8-13-2021</u>		PWSID: <u>City of Morristown</u>		FOR LABORATORY USE ONLY								
				Laboratory ID# 03038								
Water System Name _____ Mailing Address <u>m.poteet@my.morristown.com</u> Phone: _____ Fax No: _____ Sample Collector <u>Dana Thompson</u>		Date Received: <u>8-13-21</u>		By Whom <u>KR</u>								
		Time Received: <u>13:21</u>										
		Date Setup: <u>8-13-21</u>		Analyst <u>KR</u>	Date Read: <u>8-14-21</u>	Analyst <u>KR</u>						
		Time Setup: <u>13:21</u>			Time Read: <u>13:31</u>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Sample (s) over 30 hours old</td> <td style="text-align: center;">1</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">CODE</td> </tr> <tr> <td>Leaked in Transit</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Insufficient quantity</td> <td style="text-align: center;">3</td> </tr> </table>						Sample (s) over 30 hours old	1	CODE	Leaked in Transit	2	Insufficient quantity	3
Sample (s) over 30 hours old	1	CODE										
Leaked in Transit	2											
Insufficient quantity	3											
Method Code - 9223												
Sample Location / Address		Time Collected	Cl2 Residual	Sample Type	Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E.Coli.)		If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number			
					Neg	Pos	Neg	Pos				
⑦	1	<u>Turkey Creek</u>	<u>1030 AM</u>			<u>>2419.6</u>		<u>242.7</u>				
	2											
⑦	3	<u>Flat Creek</u>	<u>1120 AM</u>			<u>>2419.6</u>		<u>203.5</u>				
	4											
⑦	5	<u>Fall Creek</u>	<u>1205 PM</u>			<u>>2419.6</u>		<u>360.9</u>				
	6											
	7											
	8											
	9											
	10											

Sample Type: F = Repair Line S= Special D=Distribution N=New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below

Morristown Laboratory Bacteriological Analysis

Date 8-18-2021		PWSID: City of Morristown		FOR LABORATORY USE ONLY										
				Laboratory ID# 03038										
Water System Name Mailing Address mpotect@my.morristown.com Phone: Fax No: Sample Collector Dana Thompson		Date Received: 8-18-2021		By Whom CB										
		Time Received: 11:20												
		Date Setup: 8-18-21		Analyst CB		Date Read 8-19-2021								
		Time Setup: 12:30				Time Read 1313								
						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Sample (s) over 30 hours old</td> <td style="width: 5%;">1</td> <td rowspan="3" style="width: 15%; text-align: center; font-weight: bold;">CODE</td> </tr> <tr> <td>Leaked in Transit</td> <td>2</td> </tr> <tr> <td>Insufficient quantity</td> <td>3</td> </tr> </table>		Sample (s) over 30 hours old	1	CODE	Leaked in Transit	2	Insufficient quantity	3
Sample (s) over 30 hours old	1	CODE												
Leaked in Transit	2													
Insufficient quantity	3													
				Method Code - 9223		If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number								
				Contaminant Code 3100 (Total Coliform) Neg Pos Neg Pos										
	Sample Location / Address	Time Collected	Cl2 Residual	Sample Type										
①	1 Flat Creek	9:30 AM			>2419.6 1203.3									
②	2													
③	3 Turkey Creek	1020AM			>2419.6 1732.9									
④	4													
⑤	5 Fall Creek	1050AM			>2419.6 1119.9									
⑥	6													
⑦	7													
⑧	8													
⑨	9													
⑩	10													

Sample Type: F = Repair Line S= Special D=Distribution N=New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below

Morristown Laboratory Bacteriological Analysis

Date 08-25-2021		PWSID City of Morristown		FOR LABORATORY USE ONLY																			
Water System Name _____ Mailing Address mpoteet@my.morristown.com Phone: _____ Fax No: _____ Sample Collector Dana Thompson				Laboratory ID# 03038																			
				Date Received: 8-25-2021		By Whom US																	
				Time Received: 1335																			
				Date Setup: 8-25-2021		Analyst US		Date Read: 8-26-2021		Analyst US													
				Time Setup: 1339		Time Read: 1344																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Sample (s) over 30 hours old</td> <td style="width: 5%;">1</td> <td rowspan="3" style="width: 15%; text-align: center; vertical-align: middle;">CODE</td> </tr> <tr> <td>Leaked in Transit</td> <td>2</td> </tr> <tr> <td>Insufficient quantity</td> <td>3</td> </tr> </table>										Sample (s) over 30 hours old	1	CODE	Leaked in Transit	2	Insufficient quantity	3							
Sample (s) over 30 hours old	1	CODE																					
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;">Method Code - 9223</td> <td colspan="2" rowspan="3" style="text-align: center; vertical-align: middle;"> If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number </td> </tr> <tr> <td colspan="2" style="text-align: center;">Contaminant Code 3100 (Total Coliform)</td> <td colspan="2" style="text-align: center;">Contaminant Code 3014 (E. Coli.)</td> </tr> <tr> <td style="text-align: center;">Neg</td> <td style="text-align: center;">Pos</td> <td style="text-align: center;">Neg</td> <td style="text-align: center;">Pos</td> </tr> </table>										Method Code - 9223				If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number		Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E. Coli.)		Neg	Pos	Neg	Pos
Method Code - 9223				If sample is Positive Notify Field Office (865)594-5515 and Sampler Remarks or W. O. Number																			
Contaminant Code 3100 (Total Coliform)		Contaminant Code 3014 (E. Coli.)																					
Neg	Pos	Neg	Pos																				
	Sample Location / Address	Time Collected	Cl2 Residual	Sample Type																			
①	Turkey Creek	1030 AM		Creek	>2419.6		162.4																
②																							
③	Fall Creek	1120 AM		Creek	>2419.6		517.2																
④																							
⑤	Flat Creek	1200 PM		Creek	>2419.6		44.1																
⑥																							
⑦																							
⑧																							
⑨																							
⑩																							

Sample Type: F = Repair Line S = Special D = Distribution N = New Line RA = Repeat Above RS = Repeat Same RB = Repeat Below

FACILITYID	Location	Looking U	Pipe Type	Pipe Dia	Ditch Type	ch Width (ft)	Description	Date	Severity	Correctability	Access
TKC-085	Bank Right		RCP	15			15" RCP	2/21/22	5	1	1
TKC-086	Bank Right						4' wide concrete ditch	2/21/22	3	3	1
SKF-006	Bank Left				Concrete	4		12/8/21	5	1	1
SKF-007	Bank Right				Concrete	4		12/8/21	2	3	2
SKF-008	Bank Right		RCP	24	Concrete	6		12/8/21	5	1	1
SKF-10	Bank Right				Earth	2		1/13/22	5	1	4
	Bank Right				Riprap	4		1/13/22	2	3	2
	Bank Left				Earth	1		1/13/22	4	1	2
	Bank Left				Earth	1		1/13/22	5	1	1
	Bank Left				Earth	2		1/13/22	5	1	1
	Bank Left				Earth	2		1/13/22	4	2	4
	Bank Left				Earth	2		1/26/22	5	1	3
	Bank Left				Earth	1		1/26/22	5	1	3
	Bank Right		RCP	36	Earth	5		1/26/22	3	3	3
	Bank Left		HDPE	18	Riprap	5		2/9/22	4	2	3
	Bank Right				Earth	5		2/9/22	4	2	1
TKC-108 DUPL	Bank Left		PVC	4				2/17/22	5	1	1
	Bank Left		CMP	18				2/17/22	5	1	1
TKC-107 DUPL	Bank Right		CMP	48	Earth	5		2/17/22	4	2	1
TKC-106 DUPL	Bank Right		CMP	2-24				2/17/22	3	3	3
TKC-105 DUPL	Bank Right				Earth	3		2/17/22	5	1	3
TKC-104 DUPL	Bank Right				Earth	7		2/17/22	5	1	1
TKC-103 DUPL	Bank Right		PVC	8				2/17/22	5	1	4
TKC-102 DUPL	Bank Right				Earth	3		2/17/22	5	1	1
TKC - 185	Bank Left				Other	3		2/17/22	5	1	1
TKC-101 DUPL	Bank Right				Earth	3		2/17/22	5	1	1
TKC - 184	Bank Left		PVC	3				2/17/22	5	1	1
TKC - 176	Bank Right		CMP	12				2/21/22	2	3	1
TKC - 082 DUPL	Bank Left		Other	8				2/21/22	5	1	1
TKC - 178	Bank Right		PVC	8				2/21/22	5	1	1
TKC - 179	Bank Right		PVC	4				2/21/22	5	1	2
TKC - 180	Bank Right		PVC	6				2/21/22	5	1	3
TKC - 083 DUPL	Bank Left		Other				CB drop inlet CL of creek	2/21/22	5	1	1
TKC-084 DUPL	Bank Left		Other				CB drop inlet CL of creek	2/21/22	5	1	1

FACILITYID	Location	Looking U	Pipe Type	Pipe Dia	Ditch Type	ch Width (ft)	Description	Date	Severity	Correctability	Access
TKC - 181	Bank Left		RCP	24	Earth	5		2/21/22	2	4	2
TKC - 182	Bank Left		RCP	15				2/21/22	5	1	1
TKC-087 DUPL	Bank Right		RCP	12	Earth	3		2/21/22	5	1	1
TKC-088 DUPL	Bank Right		PVC	1.5				2/21/22	5	1	1
TKC-089 DUPL	Bank Right		RCP	36				2/21/22	5	1	1
TKC - 091 DUPL	Bank Left		CMP				AD drop inlet CL creek	2/21/22	5	1	1
TKC-090 DUPL	Bank Left		CMP				AD drop inlet CL creek	2/21/22	5	1	1
TKC-100 DUPL	Bank Left		CMP	41x28				3/2/22	5	1	2
TKC - 183	Bank Left				Earth	3		3/2/22	5	1	1
TKC-099 DUPL	Bank Left		HDPE	6				3/2/22	5	1	1
TKC-098 DUPL	Bank Left				Concrete	3		3/2/22	2	4	1
TKC-097 DUPL	Bank Left				Concrete	2		3/2/22	3	3	1
TKC-096 DUPL	Bank Left		Other	36			AD drop inlet	3/2/22	5	1	1
TKC-095 DUPL	Bank Left		Other	36			AD drop inlet cL of creek	3/2/22	5	1	1
TKC-094 DUPL	Bank Right		RCP	24	Concrete	3		3/2/22	4	3	1
TKC-093 DUPL	Bank Left				Concrete	4		3/2/22	3	4	1
TKC-092 DUPL	Bank Right				Concrete	4		3/2/22	5	1	2
TKC - 174	Bank Left		Other				CB drop inlet cL of creek	3/3/22	5	1	1
TKC - 175	Bank Left		Other				CB drop inlet cL of creek	3/3/22	5	1	1
TKC - 173	Bank Left		RCP	24				3/3/22	5	1	1
TKC - 172	Bank Left		RCP	6				3/3/22	5	1	1
TKC - 170	Bank Left		RCP	6				3/3/22	5	1	1
TKC - 169	Bank Left		RCP	8				3/3/22	5	1	1
TKC - 167	Bank Left		RCP	8				3/3/22	2	4	2
TKC - 166	Bank Left		CMP	18				3/3/22	1	4	1
TKC - 164	Bank Left		RCP	24				3/3/22	3	3	1
TKC-162	Bank Right		RCP	15				3/3/22	5	1	2
TKC-163	Bank Right		PVC	12				3/3/22	5	1	2
TKC - 165	Bank Right		RCP	18				3/3/22	4	1	2
TKC - 168	Bank Right		RCP	24				3/3/22	3	3	2
TKC - 171	Bank Left		RCP	8				3/3/22	1	5	2